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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/596,979	09/26/2006	Rainer Mueller	A8450PCT-UT	3743		
43749	7590	06/16/2010	EXAMINER			
CHRISTOPHER PARADIES, PH.D. FOWLER WHITE BOGGS P.A. 501 E KENNEDY BLVD, STE. 1700 TAMPA, FL 33602				SANDERSON, JOSEPH W		
ART UNIT		PAPER NUMBER				
3644						
MAIL DATE		DELIVERY MODE				
06/16/2010		PAPER				

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/596,979	MUELLER ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Joseph W. Sanderson	3644	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 17 November 2009.
- 2a) This action is **FINAL**.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 17, 19, 21-23 and 26-32 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 17, 19, 21-23 and 26-32 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                         | Paper No(s)/Mail Date. _____ .                                    |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ . | 5) <input type="checkbox"/> Notice of Informal Patent Application |
|  | 6) <input type="checkbox"/> Other: _____ .                        |

**DETAILED ACTION**

***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 26 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Due to the wording of [0018]-[0019] and claim 26, it is unclear whether GLARE is an alternative to the construction now claimed in claim 17, the name of that which is claimed in claim 17, an addition to that which is claimed in claim 17, or another reading not mentioned.

***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 17, 19, 21-23 and 26 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Westre et al. (US 6 114 050).

As best understood, Westre clearly discloses the features of the claims in the disclosure, particularly Figs 1 and 4A.

The limitations of claims 19, 21 and 26 further limit the embodiments with carbon and glass fibers and fibers embedded within ceramic. However Westre anticipates the embodiment of carbon fibers alone, and fibers embedded in a metal, rendering these limitations optional.

5. Claims 27, 28 and 30 are rejected under 35 U.S.C. 102(b) as being anticipated by Westre et al. ('050).

The discussion above regarding claim 17 is relied upon.

Westre discloses the outer surface of the exterior skin exposed to weathering protected by joined a plate-like planking (28) to the outer surface comprised of a combination material of a non-metallic and metal (seen in Fig 3B), the planking being protective against burn through (due to the structure), adjusted to an outer contour of the exterior skin (to fit on the fuselage), and comprising aluminum or aluminum alloy (col 5, lines 1-2).

#### ***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 29, 31 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Westre ('050) in view of Palm (US 6 861 156).

Regarding claim 29:

The discussion above regarding claim 28 is relied upon.

Westre discloses an aircraft planking using a combination material, but does not specifically disclose the material as a GLARE material.

Palm discloses as known in the art an aircraft using a GLARE material as a known weight saving material with high damage tolerance (col 1, lines 43-46).

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Westre to use GLARE as taught by Palm for the well-known predictable advantage of decreasing the weight of the aircraft while increasing the damage tolerance.

Regarding claims 31 and 32:

The discussion above regarding claims 17 and 23 is relied upon.

Westre discloses carbon fiber composites, but does not disclose use of glass fiber composites.

Palm teaches glass fiber composites (specifically GLARE, as noted above).

It would have been an obvious matter of design choice to use glass fiber composites as well, since applicant has not disclosed that the additional use solves any stated problem or is for

any particular purpose and it appears that the invention would perform equally as well with carbon fiber composites alone (as also noted by the alternative use within the disclosure).

***Response to Arguments***

8. Applicant's arguments filed 17 November 2009 have been fully considered but they are not persuasive.

In response to applicant's argument that Westre does not disclose carbon fibers coated with a nitride or carbide bond imbedded in a metal or ceramic, Westre discloses silicon carbide fibers (col 13, lines 50-52) which the applicant uses as an example of carbide bonded fibers ([0021]), and variously discussed the embedding in metal (particularly aluminum, titanium and alloys of each) layers.

***Conclusion***

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph W. Sanderson whose telephone number is 571-272-6337. The examiner can normally be reached on M 6:30 am - 11:30 am, T-F 6:30 am - 3:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael R. Mansen can be reached on 571-272-6608. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. W. S./  
Examiner, Art Unit 3644  
/Tien Dinh/  
Primary Examiner, Art Unit 3644